

1 I claim:

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3 1. An elastomeric sealing element used in downhole well environment, the sealing element
4 comprising:

5
6 an elastomeric body having an exterior surface;

7
8 a synthetic, polymeric, polyurethane surface coating applied to at least selected portions of the
9 exterior surface of the elastomeric body.

10
11 2. The elastomeric sealing element of claim 1, wherein the surface coating has the following
12 published characteristics:

13
14 Mix ratio A/B by volume 3/1 supplied in pre-measured kits

15 Percent solids (by weight) 56

16
17 Volatile Organic compounds 3.5 lb/gal

18
19 Tack Free time 30 min.

20
21 Physical Properties of Cured Coatings:

22
23 Tensile strength ASTM D 412 5000psi

24
25 Method A, Die C

26
27 Percent Elongation

28
29 ASTM D 412 Method A, Die C 500 percent

30
31 Taber Abraser

32
33 CS17 1000 g/1000 cycles No loss

34
35 Durometer Shore A 110

1 3. The elastomeric sealing element of claim 1, wherein the sealing element is an O-ring seal for a drill
2 bit.

3
4 4. The elastomeric sealing element of claim 1, wherein the sealing element is a resilient diaphragm
5 for a drill bit.

6
7 5. The elastomeric sealing element of claim 1, wherein the sealing element is a resilient element of
8 an oil field packer.

9
10 6. The elastomeric sealing element of claim 1, wherein the sealing element is a resilient element of
11 a liner wiper plug.

12
13 7. The elastomeric sealing element of claim 1, wherein the sealing element is a component of a
14 cementing shoe.

15
16 8. The elastomeric sealing element of claim 1, wherein the sealing element is a pipeline pig.

17
18 9. An elastomeric sealing element used in downhole well environment, the sealing element
19 comprising:

20
21 an elastomeric body having an exterior surface;

22
23 a synthetic, polymeric surface coating applied to at least selected portions of the exterior surface of
24 the elastomeric body, the synthetic, polymeric surface coating comprising ENDURALAST™ Tire
25 Coating manufactured by Lord Chemical Corporation.